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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No: 10/729,182 Docket No: 589
 Filing Date: 12/04/2003 Applicant: Bryce V. Robbins
 Examiner: FITZGERALD, JOHN P Art Unit: 2856
 Title: **METHOD OF MONITORING DUAL-PHASE LIQUID AND INTERFACE LEVELS**

To: Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

RESPONSE TO OFFICE ACTION TRANSMITTAL

1. Transmitted herewith is a response to an office action for this application.

STATUS

2. Applicant is entitled to Small Entity Status.
3. The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply. Applicant believes that no extension of time is required. However, a conditional petition is hereby made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

4. FEE FOR CLAIMS: The fee for claims has been calculated as follows:

Claims Remaining After Amendment	Highest No. Previously Paid For	Present Extra
Total 7	- 20	= 0
Ind. 1	- 3	= 0

No additional fee for claims is required.

5. FEE PAYMENT: No fee is required at this time. Authorization is hereby given to charge any required fees to deposit account number 11-1245.

6. Certificate of Mailing (37 CFR 1.8a): I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, Mail Stop Non-Fee Amendment, P.O. Box 1450, Alexandria, VA 22313-1450.

Respectfully submitted,

Date: October 2, 2004



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RESPONSE TO OFFICE ACTION

Dear Sir:

The following is in response to the Office Action dated 09/23/2004:

AMENDMENTS TO THE CLAIMS

- 1 1. (Currently amended) A method of monitoring dual-phase liquid and interface levels
2 comprising the following steps:
3 a) removably suspending a monitoring instrument in a site to be monitored,
4 b) providing a level element that floats on an upper surface of a product layer of liquid
5 in said site,
6 c) providing a first pressure transducer that is connected to said level element at a
7 fixed distance below said level element, said distance being such that said first pressure
8 transducer is suspended in a heavier one of the two liquids being monitored,
9 d) continuously monitoring output signals from said first pressure transducer
10 indicating measured fluid pressure,
11 e) continuously monitoring output signals from said level element indicating measured
12 fluid pressure, and